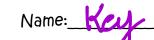
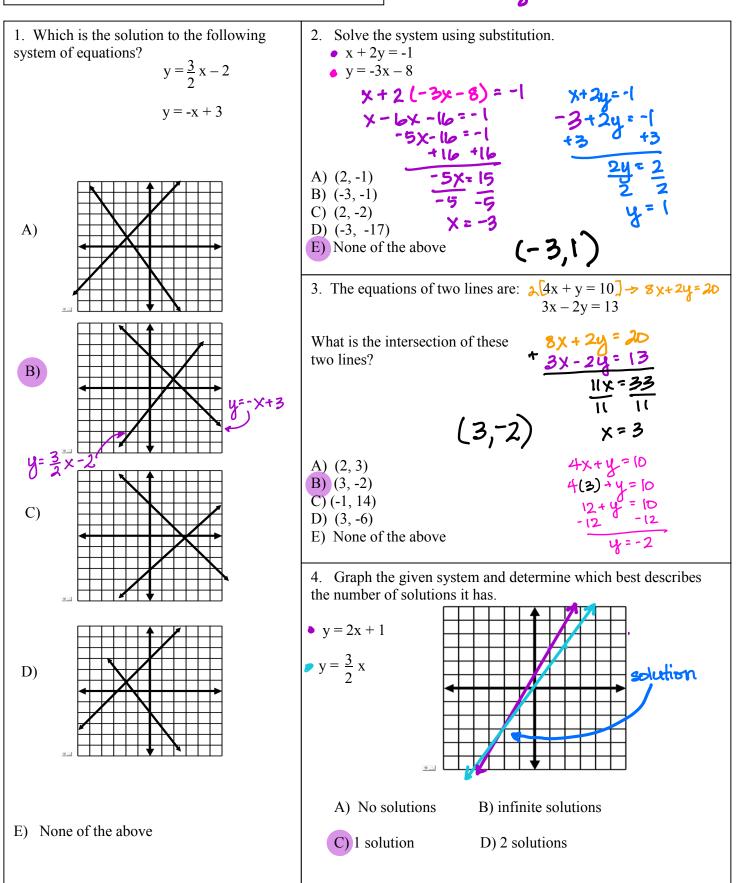
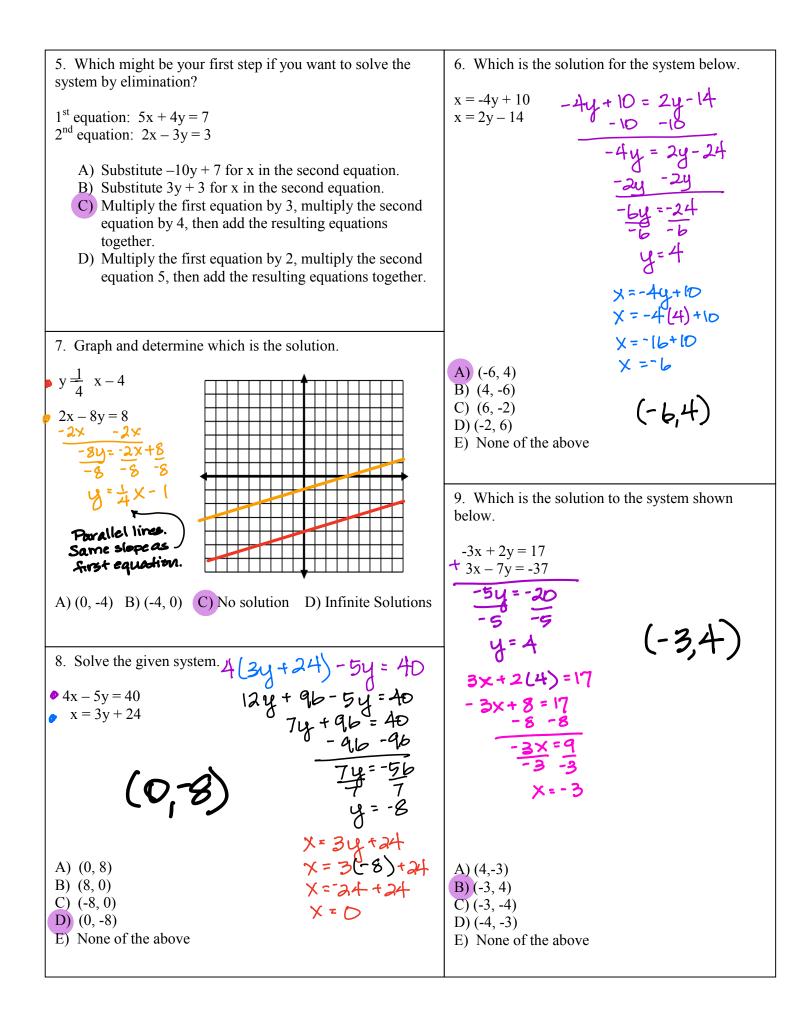
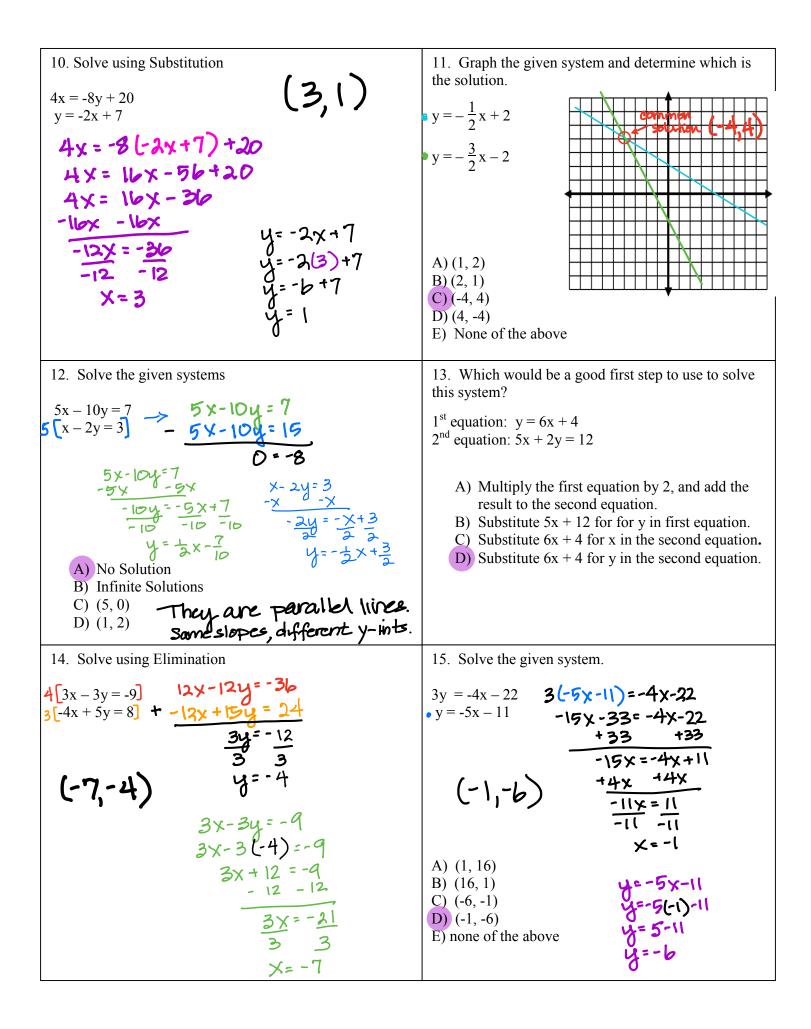
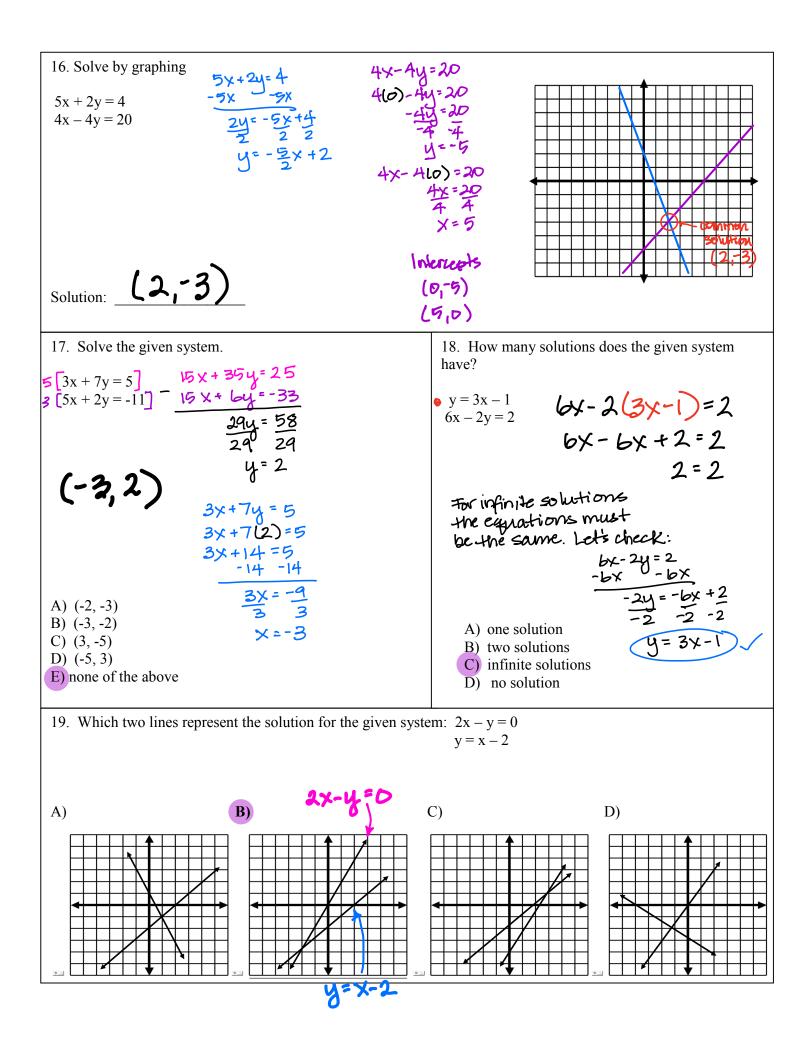
Solving Systems of Equations Review

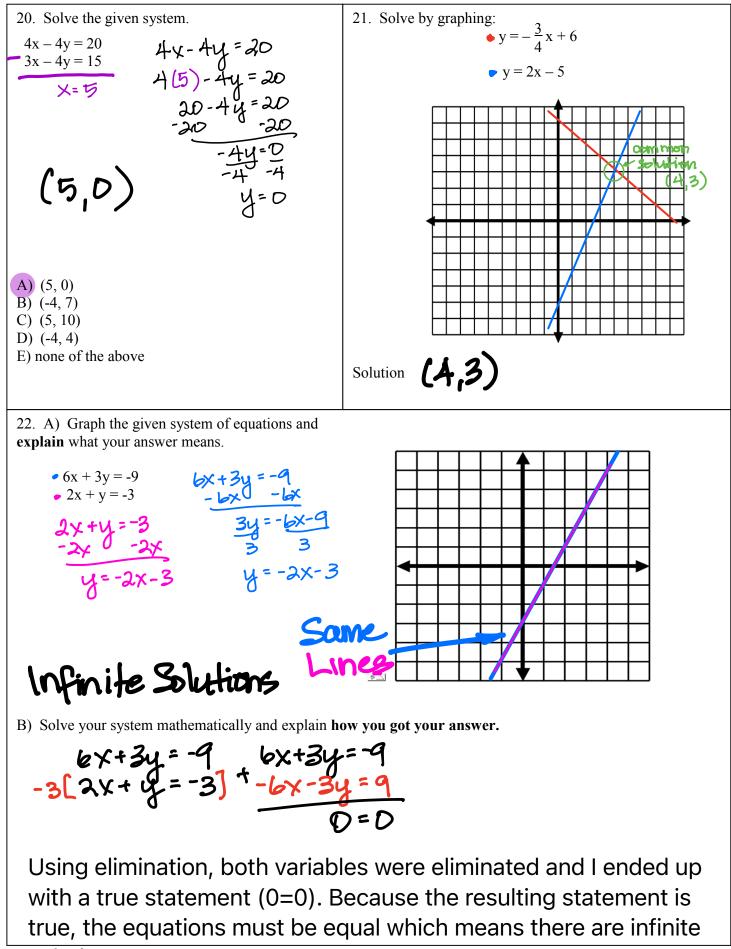












solutions.

Solve the following systems of equations. Don't forget to define variables! Feel free to use extra paper if needed.

 The senior classes at High School A and High School B planned separate trips to the indoor climbing gym. The senior class at High School A rented and filled 3 vans and 13 buses with 612 students. High School B rented and filled 3 vans and 6 buses with 297 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus

Let
$$x = #$$
 of students in a van
Let $y = #$ of students in a bub
 $3x + 13y = b12$
 $3x + by = 297$
 $3x + by = 297$
 $7y = 315$
 $7 = 45$
 $3x = 277$
 $3x + by = 297$
 $3x + b(A5) = 297$
 $3x + 270 = 297$
 $3x + 270 = 297$
 $3x = 277$
 $3x = 277$

9 students/van and 45 students/lave

 Alberto and Ryan each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Alberto spent \$13 on 2 hostas and 1 geranium. Ryan spent \$83 on 10 hostas and 7 geraniums. Find the cost of one hosta and the cost of one geranium.

Let
$$x = cost of 1$$
 hosta
Let $y = cost of 1$ geranium
 $-5(ax + y = 13)$ $-10x - 5y = -bs$
 $10x + 7y = 83$ $+ 10x + 7y = 83$
 $ax + 9 = 13$
 $ay = 18$
 $y = 9$ $ax = 3$
 $y = 9$ $ax = 3$
 $x = 2$

\$2/hosta and \$9/gerannum

3. Shawna and Mark each improved their yards by planting rose bushes and ornamental grass. They bought their supplies from the same store. Shawna spent \$16 on 1 rose bush and 6bunchesof ornamental grass. Mark spent \$36 on 4 rose bushes and 10 bunches of ornamental grass. What is the cost of one rose bush and the cost of one bunch of ornamental grass?

Let
$$x = \cos t$$
 of a rose bush
Let $y = \cos t$ of an ornamental goass
 $4[x + by = 1b] \rightarrow 4x + 24y = 64$
 $4x + 10y = 3b - 4x + 10y = 3b$
 $\frac{14y = 28}{14}$
 $y = 2$
 $y = 2$
 $x = 4$

\$4/rosc bush and #2/bunch of grass

4. Jack and Shanice are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Jack sold 4 bags of windflower bulbs and 10 packages of crocus bulbs for a total of \$166. Shanice sold 13 bags of windflower bulbs and 2 packages of crocus bulbs for a total of \$82. Find the cost each of one bag of windflower bulbs and one package of crocus bulbs.

Let x = cost of a bag of vandflawar bulbs Let y = cost of a fuckage of crocus bulbs 4x + 10y = 16b - 4x + 10y = 5[13x + 2y = 82] - 65x + 10y =(4) + (D) =16+10u= -4x=2 X = AWindflowar Bulbe = *4 Crocus Bulbs =